

Phase 2 - Report

Members (Introduction):

Mimi Nguyen - ER Diagrams, Queries (Postgres), Backend (Express.js, Node.js)

Bryan Nguyen - Finalized ER Diagram, Upload/Finalized Files

Karson Arrants - Create Trace File, Recorded/Edited Project

Khanh Nguyen - Frontend (EJS, HTML, Bootstrap), Queries (Postgres), Backend

Application Intro:

This project is a multi-restaurant food order web and database application that is a project made for COSC 3380 Database Systems with Dr. Carlos Ordonez in Fall 2023.

Application Demo: <https://youtu.be/YtH1s6OapYw>

Refer to the readme for project installation and setup:

<https://github.com/sixthsenseriot/bites-n-bytes/tree/main>

ER Diagram:

https://drive.google.com/file/d/1Zfaqb2Z_8XmRVFczf1OEqFVjklhz7are/view?usp=sharing

Websites Used:

<https://www.postgresqtutorial.com/>

<https://www.postgresql.org/docs/16/index.html>

<https://getbootstrap.com/docs/4.0/getting-started/introduction/>

<https://fontawesome.com/>

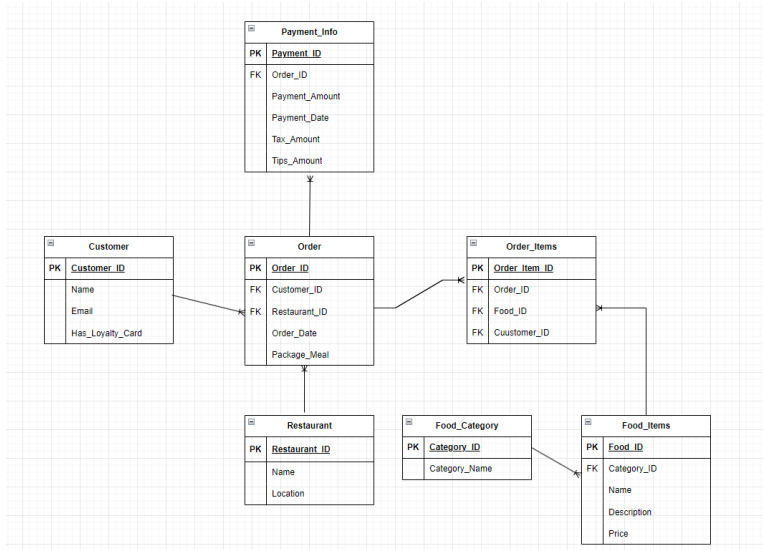
Software Stack:

Database: PostgreSQL

Backend: Express, NodeJS, and EJS

Frontend: EJS and HTML with Bootstrap

DB Model:



Important SQL Queries:

// Pulls data from each selected restaurant from joined tables - Line 21

```
const result = await pool.query(`
  SELECT DISTINCT f.food_id, f.name AS food_name, f.description AS food_description, f.price, c.category_name
  FROM FoodItems f
  JOIN FoodCategories c ON f.category_id = c.category_id
  WHERE f.category_id = $1
`, [restaurantId]);
```

// Pulls data from customer table to render customer info - Line 88

```
const customerResult = await pool.query(`
  SELECT customer_id, name, email, has_loyalty_card
  FROM customer
  WHERE customer_id = $1
`, [customerId]);
```

// Pulls data from joined tables to render customer orders - Line 110

```
const orderResult = await pool.query(`
  SELECT oi.order_item_id, f.name AS food_name, f.price
  FROM OrderItems oi
  JOIN FoodItems f ON oi.food_id = f.food_id
  WHERE oi.order_id IN (SELECT order_id FROM Orders WHERE customer_id = $1)
`, [customerId]);
```

// Adds order to orders table - Line 175

```
const newOrderResult = await pool.query(`
  INSERT INTO Orders (customer_id, restaurant_id, order_date, package_meal)
  VALUES ($1, 1, current_date, false) -- Assuming restaurant ID is 1 and package_meal is set to false
  RETURNING order_id
`, [customerId]);
```

// Deletes order from OrderItems table - Line 207

```
await pool.query(`
  DELETE FROM OrderItems
  WHERE order_item_id = $1
`, [orderId]);
```

// Creates CustomerTransaction and OrderHistory tables on place order - Line 296

```
const result = await pool.query(`
CREATE TABLE IF NOT EXISTS CustomerTransaction (
  customer_id SERIAL PRIMARY KEY,
  name VARCHAR(255) NOT NULL,
  date DATE NOT NULL,
  transaction VARCHAR(255) NOT NULL
);
`);

const result = await pool.query(`
CREATE TABLE IF NOT EXISTS OrderHistory (
  order_item_id SERIAL PRIMARY KEY,
  order_id INT REFERENCES customer(customer_id),
  food_id INT NOT NULL
);
`);
```